

Applicant: A. Wallace et al.

Application No. 10/721,684

LISTING OF CLAIMS

The Listing of Claims will replace all prior versions, and listings, of claims in the above-identified application. Deleted matter is indicated by strikethrough, and added matter is indicated by underlining.

CLAIMS:

1. (Currently Amended) A multi-component catalyst system structure for the polycondensation of a polyester monomer comprising the element germanium in an amount of from 1 part per million to 200 parts per million, and one or more catalyst enhancers selected from the group of elements consisting of aluminium aluminum in an amount from 1 part per million to 400 parts per million, silicon in an amount from 1 part per million to 400 parts per million, molybdenum in an amount from 1 part per million to 200 parts per million, manganese in an amount from 1 part per million to 400 parts per million, lithium in an amount from 1 part per million to 200 parts per million and combinations thereof, excepting the except for a combination of germanium and lithium only, said elements being in the form of polycondensation compatible elements, compounds, acids, bases, salts, compositions, oxides or organic complexes.

2. (Currently Amended) A multi-component catalyst system structure as claimed in claim 1 wherein the monomer is bis-hydroxy-ethyl terephthalate, which is polycondensed to produce polyethylene terephthalate.

3. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein the enhancer is aluminium aluminum.

4. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein the enhancer is silicon.

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5. (Currently Amended) A catalyst system structure as claimed in claim 2
wherein the enhancer is molybdenum.

6. (Currently Amended) A catalyst system structure as claimed in claim 2
wherein the enhancer is manganese.

7. (Currently Amended) A catalyst system structure as claimed in claim 2
wherein the enhancer is lithium and one or more of aluminium aluminum, silicon,
molybdenum, and manganese.

8. (Currently Amended) A catalyst system structure as claimed in claim 2
wherein the enhancer is two or more of aluminium aluminum, silicon, molybdenum,
manganese, and lithium.

9. (Currently Amended) A catalyst system structure as claimed in claim 2
wherein germanium and aluminium aluminum are selected and the level of germanium in the
~~polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and~~
~~the level of aluminium in the polyethylene terephthalate is in the range from 1 part per million~~
~~to 400 parts per million.~~

10. (Currently Amended) A catalyst system structure as claimed in claim 9
wherein the level of germanium is 5 to 100 parts per million and the level of aluminium
aluminum is 20 to 200 parts per million.

11. (Currently Amended) A catalyst system structure as claimed in claim 9
wherein the level of germanium is 5 to 60 parts per million and the level of aluminium
aluminum is 60 to 150 parts per million.

12. (Currently Amended) A catalyst system structure as claimed in claim 2
wherein germanium and silicon are selected and the level of germanium in the polyethylene

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~~terephthalate is in the range from 1 part per million to 200 parts per million and the level of silicon in the polyethylene terephthalate is in the range from 1 to 400 parts per million.~~

13. (Currently Amended) A catalyst system structure as claimed in claim 12 wherein the level of germanium is 10 to 80 parts per million and the level of silicon is 10 to 200 parts per million.

14. (Currently Amended) A catalyst system structure as claimed in claim 12 wherein the level of germanium is 20 to 60 parts per million and the level of silicon is 20 to 150 parts per million.

15. (Currently Amended) A catalyst system structure as claimed in claim 9 wherein germanium and molybdenum are selected ~~and the level of germanium in the polyethylene terephthalate is 1 to 200 parts per million and the level of molybdenum in the polyethylene terephthalate is 1 to 200 parts per million.~~

16. (Currently Amended) A catalyst system structure as claimed in claim 15 wherein the level of germanium is 1 to 100 parts per million and the level of molybdenum is 1 to 100 parts per million.

17. (Currently Amended) A catalyst system structure as claimed in claim 15 wherein the level of germanium is 5 to 60 parts per million and the level of molybdenum is 1 to 20 parts per million.

18. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium and manganese are selected ~~and the level of germanium in the polyethylene terephthalate is 1 to 200 parts per million and the level of manganese in the polyethylene terephthalate is 1 to 400 parts per million.~~

19. (Currently Amended) A catalyst system structure as claimed in claim 18

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wherein the level of germanium is 10 to 80 parts per million and the level of manganese is 10 to 200 parts per million.

20. (Currently Amended) A catalyst system structure as claimed in claim 18 wherein the level of germanium is 20 to 60 parts per million and the level of manganese is 20 to 150 parts per million.

21. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, aluminium aluminum, and silicon are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of aluminium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of silicon in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

22. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, aluminium aluminum, and molybdenum are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of aluminium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

23. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, aluminium aluminum, and manganese are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of aluminium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

24. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, aluminium aluminum, and lithium are selected ~~and the level of~~

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~~germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of aluminium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

25. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, silicon, and molybdenum are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

26. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, silicon, and manganese are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

27. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, silicon, and lithium are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

28. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, molybdenum, and manganese are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per~~

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~~million to 200 parts per million and the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

29.(Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, molybdenum, and lithium are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

30. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, manganese, and lithium are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

31. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, ~~aluminium~~ aluminum, silicon, and molybdenum are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of aluminium is in the range from 1 part per million to 200 parts per million, the level of silicon in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

32. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, ~~aluminium~~ aluminum, silicon, and manganese are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of aluminium is in the range from 1 part per million to 200 parts per million, the level of silicon in the polyethylene terephthalate is in the range from 1 part~~

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~~per million to 200 parts per million and the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

33. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, aluminium aluminum, silicon, and lithium are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of aluminium is in the range from 1 part per million to 200 parts per million, the level of silicon in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

34. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, silicon, molybdenum, and manganese are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon is in the range from 1 part per million to 200 parts per million, the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

35. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, silicon, molybdenum, and lithium are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon is in the range from 1 part per million to 200 parts per million, the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

36. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, molybdenum, manganese, and lithium are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200~~

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~~parts per million, the level of molybdenum is in the range from 1 part per million to 200 parts per million, the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

37. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, ~~aluminium~~ aluminum, molybdenum, and manganese are selected and ~~the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of aluminium is in the range from 1 part per million to 200 parts per million, the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

38. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, ~~aluminium~~ aluminum, manganese, and lithium are selected and ~~the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of aluminium is in the range from 1 part per million to 200 parts per million, the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

39. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, silicon, molybdenum, and manganese are selected and ~~the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon is in the range from 1 part per million to 200 parts per million, the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

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40. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, aluminium aluminum, molybdenum, and lithium are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of aluminium is in the range from 1 part per million to 200 parts per million, the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

41. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, silicon, manganese, and lithium are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon is in the range from 1 part per million to 200 parts per million, the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

42. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, aluminium aluminum, silicon, manganese, and molybdenum are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of aluminium is in the range from 1 part per million to 200 parts per million, the level of silicon in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

43. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, aluminium aluminum, silicon, manganese, and lithium are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of aluminium is in the range from 1 part per million~~

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~~to 200 parts per million, the level of silicon in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

44. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, silicon, manganese, molybdenum, and lithium are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon is in the range from 1 part per million to 200 parts per million, the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

45. (Currently Amended) A catalyst system structure as claimed in claim 2 wherein germanium, ~~aluminium~~ aluminum, silicon, molybdenum, and lithium are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of aluminium is in the range from 1 part per million to 200 parts per million, the level of silicon in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

46. (Currently Amended) A multi-component catalyst system structure for the polycondensation of a polyester monomer comprising the element germanium and one or more catalyst enhancers selected from the group of elements consisting of silicon in an amount of from 1 part per million to 400 parts per million, molybdenum in an amount of from

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1 part per million to 200 parts per million, manganese in an amount of from 1 part per million to 400 parts per million, lithium in an amount of from 1 part per million to 200 parts per million, and combinations thereof, excepting the except for a combination of germanium and lithium only, said elements being in the form of polycondensation compatible elements, compounds, acids, bases, salts, compositions, oxides or organic complexes.

47. (Currently Amended) A multi-component catalyst system structure as claimed in claim 46 wherein the monomer is bis-hydroxy-ethyl terephthalate, which is polycondensed to produce polyethylene terephthalate.

48. (Currently Amended) A catalyst system structure as claimed in claim 47 wherein the enhancer is silicon.

49. (Currently Amended) A catalyst system structure as claimed in claim 47 wherein the enhancer is molybdenum.

50. (Currently Amended) A catalyst system structure as claimed in claim 47 wherein the enhancer is manganese.

51. (Currently Amended) A catalyst system structure as claimed in claim 47 wherein the enhancer is lithium and one or more of silicon, molybdenum, and manganese.

52. (Currently Amended) A catalyst system structure as claimed in claim 47 wherein the enhancer is two or more of silicon, molybdenum, manganese, and lithium.

53. (Currently Amended) A catalyst system structure as claimed in claim 47 wherein germanium and silicon are selected and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of silicon in the polyethylene terephthalate is in the range from 1 to 400 parts per million.

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54. (Currently Amended) A catalyst system structure as claimed in claim 47 wherein germanium and molybdenum are selected and the level of germanium in the polyethylene terephthalate is 1 to 200 parts per million and the level of molybdenum in the polyethylene terephthalate is 1 to 200 parts per million.

55. (Currently Amended) A catalyst system structure as claimed in claim 47 wherein germanium and manganese are selected and the level of germanium in the polyethylene terephthalate is 1 to 200 parts per million and the level of manganese in the polyethylene terephthalate is 1 to 400 parts per million.

56. (Currently Amended) A catalyst system structure as claimed in claim 46 47 wherein germanium, silicon, and molybdenum are selected and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.

57. (Currently Amended) A catalyst system structure as claimed in claim 46 47 wherein germanium, silicon, and manganese are selected and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.

58. (Currently Amended) A catalyst system structure as claimed in claim 46 47 wherein germanium, silicon, and lithium are selected and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.

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59. (Currently Amended) A catalyst system structure as claimed in claim 46 47 wherein germanium, molybdenum, and manganese are selected and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.

60. (Currently Amended) A catalyst system structure as claimed in claim 46 47 wherein germanium, molybdenum, and lithium are selected and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.

61. (Currently Amended) A catalyst system structure as claimed in claim 46 47 wherein germanium, manganese, and lithium are selected and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.

62. (Currently Amended) A catalyst system structure as claimed in claim 47 wherein germanium, silicon, molybdenum, and manganese are selected and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon is in the range from 1 part per million to 200 parts per million, the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.

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63. (Currently Amended) A catalyst system structure as claimed in claim 47 wherein germanium, silicon, molybdenum, and lithium are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon is in the range from 1 part per million to 200 parts per million, the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

64. (Currently Amended) A catalyst system structure as claimed in claim 47 wherein germanium, molybdenum, manganese, and lithium are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of molybdenum is in the range from 1 part per million to 200 parts per million, the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

65. (Currently Amended) A catalyst system structure as claimed in claim 47 wherein germanium, silicon, molybdenum, and manganese are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon is in the range from 1 part per million to 200 parts per million, the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

66. (Currently Amended) A catalyst system structure as claimed in claim 47 wherein germanium, silicon, manganese, and lithium are selected ~~and the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon is in the range from 1 part per million to 200 parts per million, the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to~~

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~~200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

67. (Currently Amended) A catalyst system structure as claimed in claim 47 wherein germanium, silicon, manganese, molybdenum, and lithium are selected and ~~the level of germanium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of silicon is in the range from 1 part per million to 200 parts per million, the level of manganese in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million, the level of molybdenum in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million and the level of lithium in the polyethylene terephthalate is in the range from 1 part per million to 200 parts per million.~~

68. (Currently Amended) A multi-component catalyst system structure for the polycondensation of a polyester monomer comprising the element germanium in an amount of from 1 part per million to 200 parts per million, and the catalyst enhancers aluminium aluminum in an amount of from 1 part per million to 400 parts per million and lithium in an amount of from 1 part per million to 200 parts per million, said elements being in the form of polycondensation compatible elements, compounds, acids, bases, salts, compositions, oxides or organic complexes.

69. (Currently Amended) A multi-component catalyst system structure as claimed in claim 68 wherein the monomer is bis-hydroxy-ethyl terephthalate, which is polycondensed to produce polyethylene terephthalate.

70. (Cancelled)

71. (Currently Amended) A catalyst system structure as claimed in claim 68 wherein the level of germanium is 5 to 100 parts per million, the level of aluminium

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aluminum is 20 to 200 parts per million, and the level of lithium is 10 to 80 parts per million.

72. (Currently Amended) A catalyst ~~system~~ structure as claimed in claim 68 wherein the level of germanium is 5 to 30 parts per million, the level of ~~aluminum~~ aluminum is 60 to 150 parts per million, and the level of lithium is 20 to 70 parts per million.

73. (Currently Amended) A catalyst ~~system~~ structure as claimed in claim 1 wherein the ~~aluminum~~ aluminum is incorporated in the catalyst ~~system~~ structure as a phenoxide, a lactate, a stearate, a glycolate, an oxalate, a citrate, or a tartrate.

74. (Currently Amended) A catalyst ~~system~~ structure as claimed in claim 1 wherein the lithium is incorporated in the catalyst ~~system~~ structure as a hydroxide, an acetate, a citrate, a carbonate, or an oxalate.

75. (Cancelled)

76. (Currently Amended) A catalyst ~~system~~ structure as claimed in claim 46 wherein the lithium is incorporated in the catalyst ~~system~~ structure as a hydroxide, an acetate, a citrate, a carbonate, or an oxalate.

77. (Currently Amended) A catalyst ~~system~~ structure as claimed in claim 68 wherein the ~~aluminum~~ aluminum is incorporated in the catalyst ~~system~~ structure as a phenoxide, a lactate, a stearate, a glycolate, an oxalate, a citrate, or a tartrate.

78. (Currently Amended) A catalyst ~~system~~ structure as claimed in claim 68 wherein the lithium is incorporated in the catalyst ~~system~~ structure as a hydroxide, an acetate, a citrate, a carbonate, or an oxalate.